District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources** Department Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

1 toposed Alternative Wethod 1 crimit of Crosure 1 fan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: OXY USA OGRID #: 192463
Address: PO Box 1988 Carlsbad, NM 88221-1988
Facility or well name: Pure Gold A Federal #14
API Number: <u>30-015-35307</u> OCD Permit Number:
U/L or Qtr/Qtr B Section 21 Township 23S Range 31E County: Eddy
Center of Proposed Design: Latitude 32.295778° N Longitude 103.780139° W NAD: ⊠1927 ☐ 1983
Surface Owner: A Federal A State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
☐ Lined ☐ Unlined Liner type: Thickness 12 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
String-Reinforced
Liner Seams: Welded ☐ Factory ☐ Other Volume: 16000 bbl Dimensions: L 90' x W 125' x D 8'
3,
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Liner Seams: Welded Factory Other
4.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other

Alternative Method:

type: Thickness

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of **Accepted for record**

mil HDPE PVC Other



Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) our foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria does not apply to dry a certain siting criteria description.	ppriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ⊠ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☑ No
in a 100-year floodplain FEMA map	☐ Yes ☑ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC
and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: (Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if m facilities are required.	
Disposal Facility Name: Disposal Facility Permit Number:	
sposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service. Yes (If yes, please provide the information below) No	ice and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	;
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justific demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
in 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards canno Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	5.17.11 NMAC

19. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accur	ate and complete to the best of my knowledge and belief.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:
20,	
OCD Approval: Permit Application (including closure plan) Closure Pl	lan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title	OCD Permit Number:
Title:	OCD FEI III (Number:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of to section of the form until an approved closure plan has been obtained and the closure plan prior to the division within 60 days of the closure plan prior to the division within 60 days of the closure plan prior to the division within 60 days of the closure plan prior to the division within 60 days of the closure plan prior to the division within 60 days of the closure plan prior to the division within 60 days of the closure plan has been obtained and the closure plan prior to the division within 60 days of the closure plan has been obtained and the closure plan prior to the division within 60 days of the closure plan has been obtained and the closure plan plan prior to the closure plan plan plan plan plan plan plan plan	to implementing any closure activities and submitting the closure report. the completion of the closure activities. Please do not complete this
	Closure Completion Date. 7-3-00
22. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alterna ☐ If different from approved plan, please explain.	ative Closure Method Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, dril two facilities were utilized.	
Disposal Facility Name:	Disposal Facility Permit Number:
posal Facility Name:	• •
Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) \(\subseteq \text{No} \)	in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operation Site Reclamation (Photo Documentation)	ions:
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24. Closure Report Attachment Checklist: Instructions: Each of the following it	ems must be attached to the closure report. Please indicate, by a check
mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	
Proof of Deed Notice (required for on-site closure)	
☐ Plot Plan (for on-site closures and temporary pits)	
☐ Confirmation Sampling Analytical Results (if applicable) ☐ Waste Material Sampling Analytical Results (required for on-site closure)	
☐ Disposal Facility Name and Permit Number	
Soil Backfilling and Cover Installation	
 ⊠ Re-vegetation Application Rates and Seeding Technique ⊠ Site Reclamation (Photo Documentation) 	
On-site Closure Location: LatitudeLongit	ude NAD: 🔲 1927 🔲 1983
25.	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure results.	report is true accurate and complete to the heat of my knowledge and
belief. I also certify that the closure complies with all applicable closure requiren	nents and conditions specified in the approved closure plan.
Name (Print): Kelton Beaird	Title: HES Specialist
Signature:	Date: 9-15-08
e mail address: kelton beaird@oxy.com	Telephone: <u>575-887-8337</u>

Closure Report

SEP 17 2008 OCD-ARTESIA

Prepared for Oxy USA

Pure Gold A Federal #14 API # 30-015-35307 Eddy County, NM

Prepared by

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

September 5, 2008

NMOCD Attn: Mike Bratcher 1301 W. Grand Ave Artesia, NM 88210

Re: Closure Report for OXY USA - Pure Gold A Federal #14

Mr. Bratcher,

The enclosed closure report is for the waste excavation and removal of the drilling pit. All excess fluids were removed and disposed at a division-approved facility. The drilling mud and liner were excavated and hauled to Controlled Recovery Inc. (Permit # R9166). After all drilling mud and liner was removed, the pit bottoms were sampled in five points and analyzed for TPH, total BTEX, Benzene, Chlorides and the DRO and GRO combined fractions. Three points exceeded the levels of the closure plan. Those points were delineated to the standards in the closure plan and the impacted material was excavated and hauled to the disposal. The levels in the closure plan were 0.2 mg/kg of Benzene, 50 mg/kg of total BTEX, 2,500 mg/kg of TPH, 500 mg/kg of combined fraction GRO/DRO, 1,000 mg/kg of Chlorides. A C-141 is attached.

After the impacted material was excavated and removed the site was backfilled with clean native soil and a minimum of 1' of topsoil was placed on the site to promote revegetation. The site was reseeded with BLM Seed Mixture #2. If there are any questions about this report please call the office.

Thanks,

Logan Anderson

District I' 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 ct IV S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

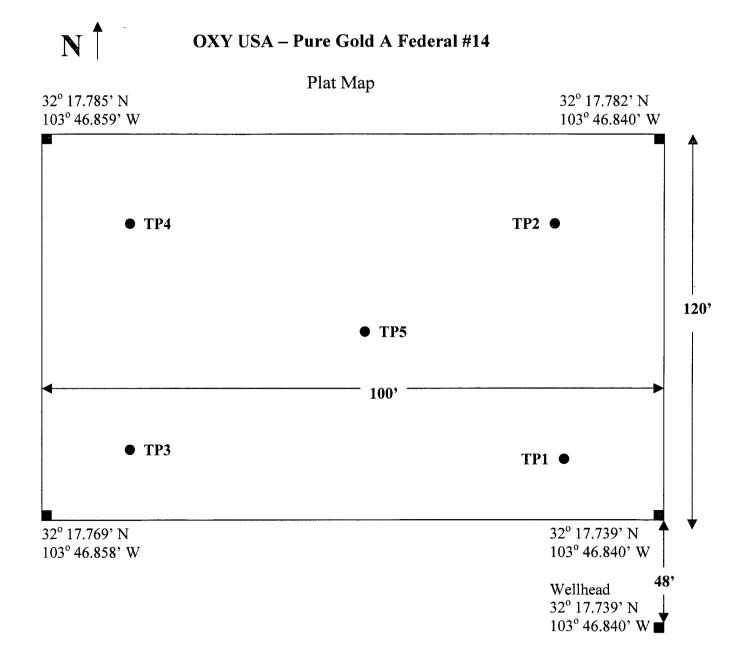
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

SEP 17 2008 Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

						OPERATOR Initial Report Final					Final Report	
Name of Company – Oxy USA							elton Beaird					
Address – P O Box 1988 Carlsbad, NM 88221						Telephone No. – 575-887-8337						
Facility Name – Pure Gold A Federal #14						Facility Typ	e – Drilling Pit			. , .		
Surface Ow	ner - Fede	ral		Mineral Ov	wner –	Federal			Lease N	lo.		
		TION	OF RE	LEASE								
Unit Letter B	Section 21	Township 23S	Range 31E			South Line	Feet from the	East/V	Vest Line	County Eddy	•	
			L	atitude_32° 17.7	79' N	Longitud	e_103° 46.847' `	<u>W</u> _				
		•		NATI	URE	OF REL	EASE					
Type of Release – Drilling Fluids Volume of Release – N/A Volume Recovered – N/A												
Source of Re							Iour of Occurrenc	e NA	Date and	Hour of Dis	covery	8-28-08
Was Immedia	ate Notice C		Yes [No 🛛 Not Rec	quired	If YES, To	Whom?					
By Whom?						Date and I	lour					
Was a Watero	course Reac						olume Impacting t	he Wate	ercourse.			
			Yes 🗵] No								
If a Watercou	irse was Im	pacted, Descr	be Fully.	ŧ								
]
Describe Cau	se of Proble	em and Reme	dial Actio	n Taken.* Drilling	pit leal	ked into und	erlying soil 2' dee	p below	pit.			
Describe Are	a Affected a	and Cleanup A	Action Tal	ken.* All impacted	materi	al was excav	ated and hauled to	o dispos	al. Pit bott	oms were te	sted an	d delineated
to the standar	ds in the pi	t closure plan.	Confirm	ation samples are a	ittached	I. Site was b	ackfilled per the p	oit closu	re plan.			
I banabu aanti	for that the	nformation oi	von abava	is two and somel	-4 - 4 - 4l-	- h + - C	11-11	1			OCD :	11
regulations al	ly mai me i I operators	are required to	ven above o renort ai	e is true and comple ad/or file certain re	te to in lease no	ne best of my otifications a	knowledge and u nd perform correc	naersiai tive acti	na that purs ions for reli	suant to MM eases which	OCD ri may er	iles and
public health	or the envir	onment. The	acceptano	ce of a C-141 repor	t by the	NMOCD m	arked as "Final R	eport" d	loes not reli	ieve the oper	rator of	liability
should their o	perations h	ave failed to a	dequately	investigate and re	mediate	contaminat	on that pose a three	eat to gr	ound water	r, surface wa	ter, hu	man health
federal, state,				otance of a C-141 re	eport do	oes not reliev	e the operator of i	responsi	bility for c	ompliance w	ith any	other
	01 10 041 141						OIL CONS	SERV	ATION	DIVISIO	N	
~	$= \neq$	<	1 ~	_								
Signature:	<u></u>							• •	ted for re	ecord		
Printed Name	: Logan An	derson			/	Approved by	District Supervise	or: r	MOCD			
Title: Consult	tant					Approval Da	te:	1	Expiration 1	Date:		
E-mail Addre	ss: la elke	env@yahoo	.com			Conditions of	f Approval:				L1	
				2 244 00:5						Attached		j
Ch Addit		ts If Necess		2-366-0043			_			1		



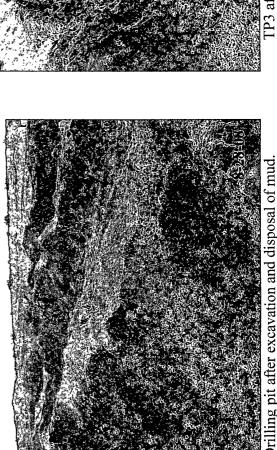
Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

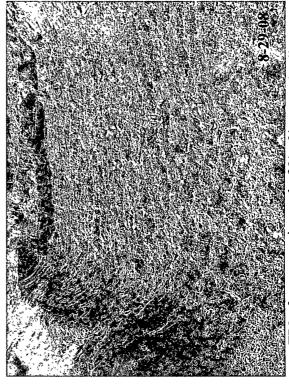
Clie	nt_OXY USA_				Analyst _	Jason Jess	up
Site	Pure Gold A	Federal #	14				
	Sample ID	Date	Depth	TPH / PPM	Cl/PPM	PID / PPM	GPS
	TP1	8-28-08	6'		6,991		32° 17.767' N 103° 46.840' W
	TP1	8-28-08	8'		983		32° 17.767' N 103° 46.840' W
	TP2	8-28-08	6'		899		32° 17.784' N 103° 46.843' W
	TP3	8-28-08	6'		7,831		32° 17.767' N 103° 46.855' W
	TP3	8-28-08	8'		293		32° 17.767' N 103° 46.855' W
	TP4	8-28-08	6'		300		32° 17.785' N 103° 46.856' W
	TP5	8-28-08	6'		3,860		32° 17.779' N 103° 46.847' W
	TP5	8-28-08	8'		147		32° 17.779' N 103° 46.847' W

- Pure Gold A Federal #14 Drilling pit before closure.

Loading drilling mud onto trucks for disposal



Drilling pit after excavation and disposal of mud.



TP3 after excavation and of 2' of impacted soil.

Drilling pit after backfill of clean soil and 1' of topsoil.

Drilling pit after backfill of clean soil and 1' of topsoil.

Analytical Report 311459

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy

04-SEP-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta

Page 1 of 17



04-SEP-08

Project Manager: Logan Anderson Elke Environmental, Inc. 4817 Andrews Hwy P.O. Box 14167 Odessa, tx 79768 Odessa, TX 79762

Reference: XENCO Report No: 311459

Oxy

Project Address: Pure Gold A Fed # 14

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 311459. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 311459 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully.

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 311459

Elke Environmental, Inc., Odessa, TX

Оху

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP # 1	S	Aug-28-08 10:00	8 ft	311459-001
TP # 2	S	Aug-28-08 10:15	6 ft	311459-002
TP # 3	S	Aug-28-08 10:30	8 ft	311459-003
TP # 4	S	Aug-28-08 10:45	6 ft	311459-004
TP # 5	S	Aug-28-08 11:00	8 ft	311459-005



Certificate of Analogis Summary 311459

Elke Environmental, Inc., Odessa, TX

Project Name: Oxv

Contact: Logan Anderson

Project Id:

Project Location: Pure Gold A Fed # 14

Date Received in Lab: Fri Aug-29-08 02.27 pm

Report Date: 04-SEP-08

Project Manager: Rrent Rarron II

								Project Ma	nager:	Brent Barron,	II .	~
	Lab Id:	311459-0	001	311459-0	002	311459-0	003	311459-0	004	311459-0	05	
Analysis Requested	Field Id:	TP # 1	TP # 1			TP # 3		TP # 4	ļ	TP # 5		
Analysis Requesieu	Depth:	8 ft		6 ft		8 ft		6 ft		8 ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-28-08	10:00	Aug-28-08	10.15	Aug-28-08	10.30	Aug-28-08	10.45	Aug-28-08	11:00	
Anions by EPA 300/300.1	Extracted:	*****										
Amons by ETA 300/300.1	Analyzed:	Sep-02-08	10.30	Sep-02-08	10 30	Sep-02-08 1	10.30	Sep-02-08	10:30	Sep-02-08	10.30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		1460	20.0	893	10.0	ND	5.00	37.8	5.00	ND	5 00	
BTEX by EPA 8021B	Extracted:	Sep-02-08	16:00	Sep-02-08	16.00	Sep-02-08 1	16:00	Sep-02-08	16:00	Sep-02-08	16:00	
	Analyzed:	Sep-03-08	04.33	Sep-03-08	04.56	Sep-03-08 (05.19	Sep-03-08	05:41	Sep-03-08	06:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		ND	0 0011	ND	0 0010	ND	0.0010	ND	0.0010	ND	0.0010	
Toluene		ND	0.0022	ND	0.0020	ND	0.0020	ND	0.0021	ND	0.0020	
Ethylbenzene		ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	
m,p-Xylenes		ND	0.0022	ND	0.0020	ND	0 0020	ND	0.0021	ND	0 0020	
o-Xylene		ND 0.0011		ND 0.0010		ND 0.0010		ND 0.0010		ND	0.0010	
Total Xylenes		ND		ND		ND		ND		ND		
Total BTEX		ND		ND		ND		ND		ND		
Percent Moisture	Extracted:											
	Analyzed:	Sep-02-08	09.05	Sep-02-08 (9.05	Sep-02-08 (09 05	Sep-02-08	09:05	Sep-02-08 (9.05	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		7.43		1.79		0.615		3.58		2.11		
TPH By SW8015 Mod	Extracted:	Sep-02-08	16.00	Sep-02-08	6:00	Sep-02-08 1	16:00	Sep-02-08	16·00	Sep-02-08	6.00	
1112 J 2 1 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Analyzed:	Sep-03-08	06:31	Sep-03-08 (6:57	Sep-03-08 0	07:23	Sep-03-08	08:15	Sep-03-08 (8.40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C12 Gasoline Range Hydrocarbons		ND	16.2	ND	15 3	ND	15 1	ND	15.6	ND	15 3	
C12-C28 Diesel Range Hydrocarbons		ND	16.2	ND	15.3	ND	15.1	ND	15.6	ND	15.3	
C28-C35 Oil Range Hydrocarbons		ND	16.2	ND	15.3	ND	15.1	ND	15 6	ND	15 3	
Total TPH		ND		ND		ND		ND		ND		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron

Odessa Laboratory Director



Project Id:

Certificate of Analogis Summary 311459

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy

Contact: Logan Anderson

Project Location: Pure Gold A Fed # 14

Date Received in Lab: Fri Aug-29-08 02:27 pm

Report Date: 04-SEP-08

								Project Mai	ager:	Brent Barron,	11	
	Lab Id:	311459-001		311459-001 311459-002		-002 311459-003		311459-004		311459-0	05	
Analysis Requested	Field Id:	TP # 1		TP # 2		TP # 3	TP # 3 TP # 4			TP # 5	ļ	
	Depth:	8 ft		6 ft		8 ft		6 ft		8 ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-28-08 10	Aug-28-08 10:00		Aug-28-08 10:15		Aug-28-08 10:30		10:45	Aug-28-08 1	1:00	
TPH by EPA 418.1	Extracted:											
,	Analyzed:	Sep-02-08 09	:09	Sep-02-08 0	9.09	Sep-02-08 (9:09	Sep-02-08 (9.09	Sep-02-08 0	9.09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
TPH, Total Petroleum Hydrocarbons		ND	10.8	ND	10.2	ND	10.1	ND	10.4	16.4	10.2	

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Odessa Laboratory Director



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(210) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
6017 Financial Dr., Norcross, GA 30071	(770) 449-8800	(770) 449-5477



Project Name: Oxy

Work Orders: 311459,

Project ID:

Lab Batch #: 733004

Sample: 311066-002 S / MS

Batch:

Matrix: Soil

Units: mg/kg						
BTEX by EPA 8021B	1		Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Dıfluorobenzene	0.0315	0.0300	105	80-120		
4-Bromofluorobenzene	0.0118	0.0300	39	80-120	**	

Lab Batch #: 733004

Sample: 311066-002 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		,	[D]			
1,4-Difluorobenzene	0.0309	0.0300	103	80-120		
4-Bromofluorobenzene	0.0154	0.0300	51	80-120	**	

Lab Batch #: 733004

Sample: 311459-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1,4-Difluorobenzene	0.0358	0.0300	119	80-120				
4-Bromofluorobenzene	0.0276	0.0300	. 92	80-120	,			

Lab Batch #: 733004

Sample: 311459-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
			[D]			
1,4-Difluorobenzene	0.0367	0.0300	122	80-120	**	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120		

Lab Batch #: 733004

Sample: 311459-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1.4-Difluorobenzene	0.0363	0.0300	121	80-120	**	
4-Bromofluorobenzene	0.0274	0.0300	91	80-120		

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution



Project Name: Oxy

Work Orders: 311459,

Project ID:

Lab Batch #: 733004

Sample: 311459-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0360	0.0300	120	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 733004

Sample: 311459-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	11	[2]	[D]	,,,,,		
1,4-Difluorobenzene	0.0360	0.0300	120	80-120		
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	_	

Lab Batch #: 733004

Sample: 515012-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	1221	(2)	[D]	/ 1		
1,4-Difluorobenzene	0.0286	0.0300	95	80-120		
4-Bromofluorobenzene	0.0269	0.0300	90	80-120		

Lab Batch #: 733004

Sample: 515012-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Dıfluorobenzene	0.0377	0.0300	126	80-120	**	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120		

Lab Batch #: 733004

Sample: 515012-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene	0.0286	0.0300	95	80-120		
4-Bromofluorobenzene	0.0263	0.0300	88	80-120		

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B



Project Name: Oxy

Work Orders: 311459,

Project ID:

Lab Batch #: 733003

Sample: 311458-005 S / MS

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	95.7	100	96	70-135		
o-Terphenyl	53.5	50.0	107	70-135		

Lab Batch #: 733003

Sample: 311458-005 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	94.5	100	95	70-135		
o-Terphenyl	52.3	50.0	105	70-135		

Lab Batch #: 733003

Sample: 311459-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	11	[2]	[D]	/ ***		
1-Chlorooctane	91.8	100	92	70-135		
o-Terphenyl	49.7	50.0	99	70-135	<u> </u>	

Lab Batch #: 733003

Sample: 311459-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
Analytes			ID1					
1-Chlorooctane	94.2	100	94	70-135				
o-Terphenyl	50.1	50.0	100	70-135				

Lab Batch #: 733003

Sample: 311459-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	85.8	100	86	70-135				
o-Terphenyl	45.1	50.0	90	70-135				

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution



Project Name: Oxy

Work Orders: 311459,

Project ID:

Lab Batch #: 733003

Sample: 311459-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctane	99.4	100	99	70-135					
o-Terphenyl	52.6	50.0	105	70-135					

Lab Batch #: 733003

Sample: 311459-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	93.8	100	94	70-135				
o-Terphenyl	50.2	50.0	100	70-135				

Lab Batch #: 733003

Sample: 515010-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes	' '		[D]					
1-Chlorooctane	94.4	100	94	70-135				
o-Terphenyl	52.5	50.0	105	70-135				

Lab Batch #: 733003

Sample: 515010-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			{D}					
1-Chlorooctane	94.1	100	94	70-135				
o-Terphenyl	50.9	50 0	102	70-135				

Lab Batch #: 733003

Sample: 515010-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	112	100	112	70-135				
o-Terphenyl	60.5	50.0	121	70-135				

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution



Blank Spike Recovery

Project Name: Oxy

ork Order #: 311459

Project ID:

Lab Batch #: 732910

Sample: 732910-1-BKS

Matrix: Solid

Date Analyzed: 09/02/2008

Date Prepared: 09/02/2008

Analyst: LATCOR

Reporting Units: mg/kg

Batch #:

1 BLANK/BLANK SPIKE RECOVERY STUDY

Reporting Chies. hig/kg	Daten #:	DLANK/DLANK STIKE RECOVERT STUDT					
Anions by EPA 300/300.1	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags	
Analytes	[A]	[B]	Result [C]	%R [D]	%R		
Chloride	ND	10.0	9.43	94	75-125		

Lab Batch #: 732801

Sample: 732801-1-BKS

Matrix: Solid

Date Analyzed: 09/02/2008

Date Prepared: 09/02/2008

Analyst: LATCOR

Reporting Units: mg/kg

1 BLANK/BLANK SPIKE RECOVERY STUDY

reporting outest mg/kg	BEAUX/BEAUX/STIKE RECOVERT STOD					TODI
TPH by EPA 418.1	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	
TPH, Total Petroleum Hydrocarbons	ND	2500	2420	97	65-135	

Blank Spike Recovery [D] = 100*[C]/[B]All results are based on MDL and validated for QC purposes





Project Name: Oxy

Work Order #: 311459

Analyst: ASA Date Prepared: 09/02/2008

Project ID:

Date Analyzed: 09/03/2008

Lab Batch ID: 733004

Sample: 515012-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	ND	0.1000	0.1117	112	0.1	0.0991	99	12	70-130	35	
Toluene	ND	0.1000	0.1074	107	0.1	0.0943	94	13	70-130	35	
Ethylbenzene	ND	0.1000	0.1082	108	0.1	0 0941	94	14	71-129	35	
m,p-Xylenes	ND	0.2000	0.2232	112	0.2	0.1946	97	14	70-135	35	
o-Xylene	ND	0 1000	0.1040	104	0.1	0.0907	91	14	71-133	35	

Analyst: IRO Date Prepared: 09/02/2008

Sample: 515010-1-BKS **Batch #:** 1

Date Analyzed: 09/03/2008

Matrix: Solid

Units: mg/kg

Lab Batch ID: 733003

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	874	87	1000	1020	102	15	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	919	92	1000	1080	108	16	70-135	35	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Oxy

Work Order #: 311459

Lab Batch #: 732910

Date Prepared: 09/02/2008

Project ID:
Analyst: LATCOR

Date Analyzed: 09/02/2008 QC- Sample ID: 311458-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

MITTALY / MITTALY OF THE RECOVERY STOPE						~ .
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	ND	100	101	101	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B) All Results are based on MDL and Validated for QC Purposes



Form 3 - S / MSD Recoveries

Project Name: Oxv

Work Order #: 311459

Project ID:

Lab Batch ID: 733004

OC- Sample ID: 311066-002 S

Ratch #:

Matrix: Soil

Date Analyzed: 09/03/2008

Date Prepared: 09/02/2008

ASA

Reporting Units: mg/kg

Analyst:

Reporting Units: hig/kg	,	N	1ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY !	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	ND	0 1025	0.0324	32	0.1025	0.0299	29	10	70-130	35	X
Toluene	ND	0.1025	0.0196	19	0.1025	0.0160	16	17	70-130	35	Х
Ethylbenzene	ND	0.1025	0.0123	12	0 1025	0.0098	10	18	71-129	35	Х
m,p-Xylenes	ND	0.2049	0.0225	11	0 2049	0.0177	9	20	70-135	35	X

Lab Batch ID: 732801

ND **OC- Sample ID:** 311459-001 S

ND

0.1025

2700

Batch #:

0.1025

10

97

1 Matrix: Soil

22

71-133

65-135

35

35

X

Date Analyzed: 09/02/2008

o-Xylene

Date Prepared: 09/02/2008

0.0101

Analyst: LATCOR

0 0082

Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Spiked Sample Spiked Duplicate Control Control **TPH by EPA 418.1** Sample Spike Result Sample Spike Spiked Sample Dup. RPD Limits Limits Flag Result Added [C] %R Added Result [F] %R % %R %RPD Analytes [A] $[\mathbf{D}]$ [B] [E] [G]

Lab Batch ID: 733003

OC- Sample ID: 311458-005 S

Matrix: Soil

2500

Date Analyzed: 09/03/2008

TPH, Total Petroleum Hydrocarbons

Date Prepared: 09/02/2008

Batch #: Analyst: IRO

2700

Renorting Units: mg/kg

BEACEDIN CRITER AND AND THE CONTROL OF THE PROPERTY CONTROL CONTROL

2610

Reporting Chits. hig/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag			
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD				
C6-C12 Gasoline Range Hydrocarbons	ND	1100	962	87	1100	950	86	1	70-135	35				
C12-C28 Diesel Range Hydrocarbons	ND	1100	1010	92	1100	997	91	1	70-135	35				

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery

Project Name: Oxy

Work Order #: 311459

Lab Batch #: 732910

Project ID:

Date Analyzed: 09/02/2008 Date Prepared: 09/02/2008 Analyst: LATCOR

QC-Sample ID: 311458-001 D

Batch #: Matrix: Soil

Reporting Units: mg/kg	SAMPLE /	SAMPLE / SAMPLE DUPLICATE REC							
Anions by EPA 300/300.1 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag				
Chloride	ND	ND	NC	20					

Lab Batch #: 733024

Date Analyzed: 09/02/2008

09/02/2008 Date Prepared:

Analyst: WRU

QC-Sample ID: 311458-001 D

Percent Moisture

Analyte

Batch #:

Matrix: Soil

Reporting Units: %

Percent Moisture

SAMPLE / SAMPLE DUPLICATE RECOVERY												
Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag								
2.67	2.58	3	20									

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

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Environment		Texa	ıs							CHA et 20 exas	East	t	usi	гов	Y RE	co	RD	AN		Pho	ne	432	-563	JES1 -1800 -1713				
Project Manager	Logan Anderso	ın.													Proj	ect l	Nam	e	<u>C</u>									
Company Name	Elke Environme	ental														Pro	ject	#										
Company Address	P O Box 14167												_		Pi	ojec	: Lo	<u>:</u> ء	·	,	<u></u>			'	t.	- (4:	: 4
City/State:Zip	Odessa TX 79	768															PΩ	* _										
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San bler Signature	(com		レンフ)	e-mail	la	3_6	elkee	ะกง	@ya	hoo	cor	m															
(lab use only)					-		_								-			_	rcur		8'47	e Fo	r I	7	1 1		Τ,	
ORDER #. 3114	59						_	Ries		0.8*4	1.Cour	2: 4:	_	Ma	-	<u>م</u>	_		- A	ъ.		7					48, 72 nm	l
00 11 # 5 01 17 # 5 02 17 # 5	D CODE	Beginning Depth	C.C.C. Ending Depth	2 32 65 2 32 65 2 32 65 2 32 65 2 32 65 2 32 65	16 660 n	and three	7		131	LISO,	(A.S.O.	Morat	Chor I Specify)	Western Annual More Tour Comment of The Comment	To the Post of the State of the	W. July I	1X 130° 1X 100°	ž 3	34074877895	Metals As Ag Ba Cu cr Pb 16	Vodandos			NORM				A X X Standard TAY
Special Instructions Septicular	2 37)- Daic	02 2:0	27pm	Received by	οτ Λ								Dare Dare		-	me me	Sa VC Cu Cu Sa	ocs bels stod istod instad by	on con sea y sea y sea y sea Counce CI	taine of He ortain is on d De evC evC	ads ads rer(s cor cor liver	ntac* pace s) ntal ve plents red Rec	9718) 3 3 7		To a Calendary Control		2 2 2 2 2 2 2 5 ta	

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client	Elke Enu.				
Date/ Time	8.79 08 7.77				
Lab ID#	311459				
Initials	<u> </u>				
	Sample Receipt	Checklist		Cilent insta	ale
#1 Tempera	ture of container/ cooler?	Yes	No	3.5 °C	Ϋ́
	container in good condition?	763	No		-
	Seals intact on shipping container/ cooler?	res	No	Not Present	1
	Seals intact on sample bottles/ container?	(es	No	Not Present	7
	Custody present?	(es	No		7
	instructions complete of Chain of Custody?	(es	No		┪
	Custody signed when relinquished/ received?	(Ves	No		7
	Custody agrees with sample label(s)?	%es	No	ID written on Cont / Lid	_
	er label(s) legible and intact?	Yes	No	Not Applicable	7
	matrix/ properties agree with Chain of Custody?	(Fes	No		٦
	ers supplied by ELOT?	(es	No		_
	s in proper container/ bottle?	Yes	No	See Below	7
	s properly preserved?	Kes	No	See Below	┪
	bottles intact?	Yes	No		ヿ
	rations documented on Chain of Custody?	Yes	No		7
	ers documented on Chain of Custody?	(e)s	No		7
	nt sample amount for indicated test(s)?	Yes	No	See Below	┪
	ples received within sufficient hold time?	Yes	No	See Below	{
	tract of sample(s)?	Yes	No	- Not Applicable	_
	amples have zero headspace?	Yes	No	Not Applicable	┥
Contact Regarding	Variance Docui	mentation		Date/ Time	
Corrective A	ction Taken				
Check all the	at Apply See attached e-mail/ fax Client understands and wou Cooling process had begun			•	